

Tuesday, March 18, 1997
FUTURE MISSIONS? INNOVATION AND AMBITION
1:30 p.m. Room D

**Chairs: A. F. Cheng
L. L. Hood**

Cheng A. F.* Farmer J. D.
Planetary Surface Sample Collection: Rock Chipper

Ulamec S.* Feuerbacher B. Wittmann K. Rosenbauer H. Bibring J. P. Moura D. Mugnuolo R. Haerendel G.
Rosetta Lander—In Situ Investigation of a Comet's Nucleus

Hohenberg C.* Thonnard N. Kehm K. Meshik A. Berryhill A. Glenn A.
Active Capture of Low-Energy Volatiles: Bringing Back Gases from a Cometary Encounter

Chyba C. F.* Ostro S. J. Edwards B. C.
Feasibility of Radar Detection of a Europa Ocean from an Orbiting Spacecraft

Chapman M. G.*
Mars Surveyor in Mangala Valles: 1. Site Justification and Mission Scenario

Sunshine J. M.*
Continuing Towards More Sophisticated Compositional Interpretations of Silicate-rich Lithologies on the Surfaces of Asteroids

Pieters C.* Murchie S. Cheng A. Zolensky M. Schultz P. Clark B. Thomas P. Calvin W. McSween H. Yeomans D. McKay D. Clemett S. Gold R.
Aladdin: Phobos-Deimos Sample Return

Economou T.* Turkevich A. Rieder R. Wänke H.
Report on the Status of the APXS on Mars Pathfinder Mission

Arvidson R. E.* Bowman J. Blaney D. Farmer J. Hayati S. Klingelhoefer G. Niebur C. S. Plescia J. Saunders R. S.
Rocky 7 Prototype Mars Rover: Field Experiments in the Mojave Desert, California

Zanetti L. J.* Anderson B. J. Paranicas C. P. Acuna M. H.
Intrinsic Magnetic Field Determination for 433 Eros from NEAR Data, Application to a Mercury Orbiter?

Duke M. B.* Whittaker W. L.
Regolith/ice Stratigraphy in a Lunar Polar Coldtrap: Basis for a Lunar Ice Discovery Mission

Otake H.* Haruyama J. Matsunaga T.
Optical Observation of the Lunar Surface from the Orbiter of SELENE

Hood L. L.* Hartdegen K.
Lunar Core Detection Using Data from a Single Orbiting Magnetometer: A Feasibility Study